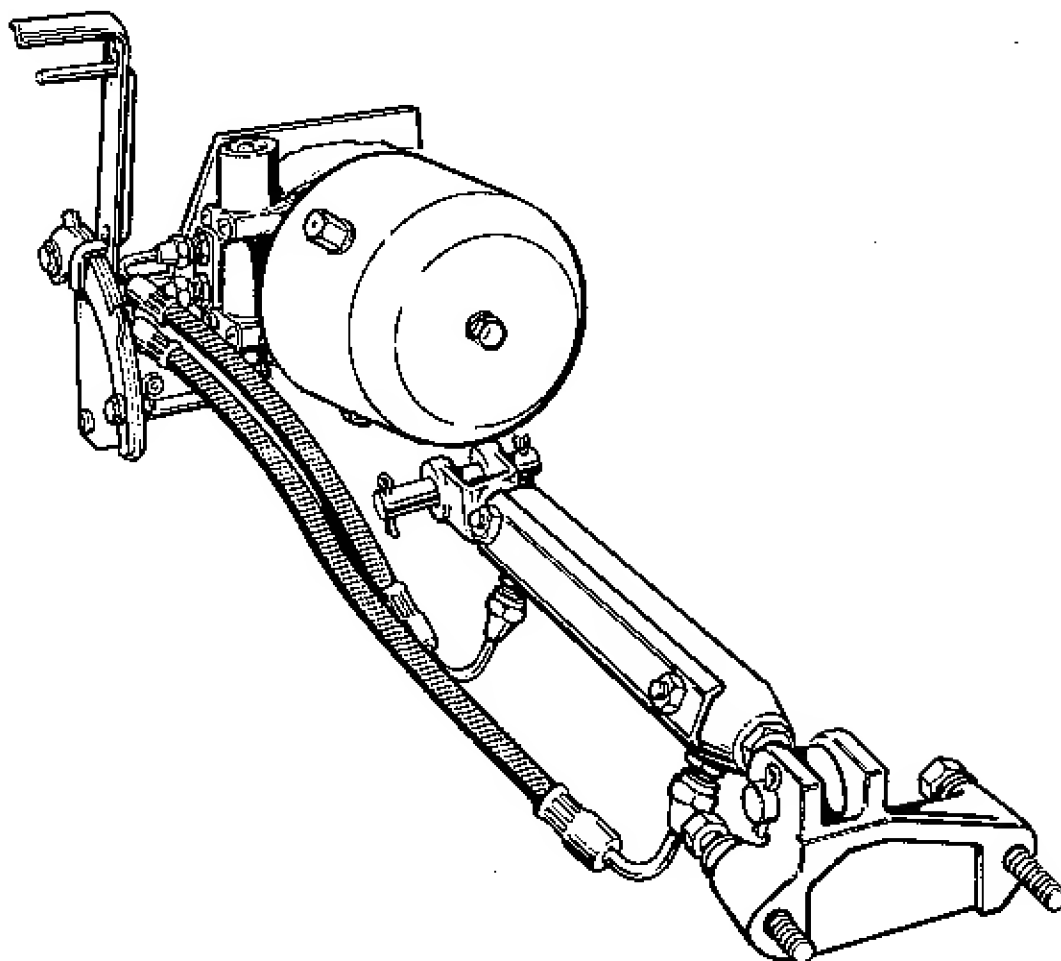


# ***Simplicity***<sup>®</sup>



## **HYDRAULIC KIT**

**Mfr's. No. 468**

### **CAUTION**

**IT IS VITALLY IMPORTANT THAT THE FLUID AND ALL INTERNAL PARTS OF THIS UNIT BE KEPT COMPLETELY CLEAN AND FREE OF FOREIGN MATTER OF ANY TYPE.**

**CHANGE OIL EVERY 20 TO 25 HOURS OF TRACTOR OPERATION. USE 10W-30 OIL ONLY.**

**USE UTMOST CARE IN ADDING OR CHECKING FLUID, AND IN PERFORMING ANY SERVICE ON INTEGRAL PARTS.**

**(For instance if a fitting or other part is dropped on a contaminated surface, the part must be carefully washed and dried before re-using).**

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**REMEMBER: HYDRAULICS DEMAND CLEANLINESS**

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TP-1297

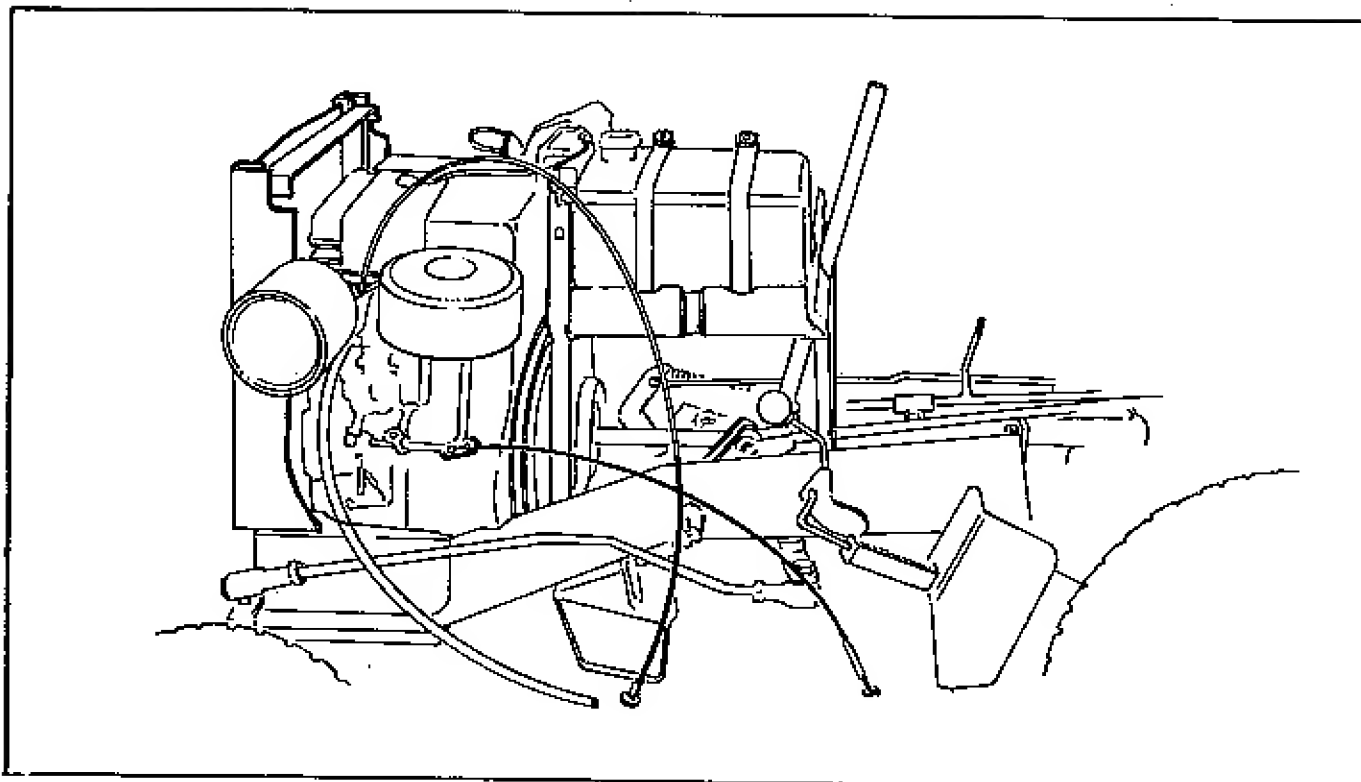


FIGURE 1

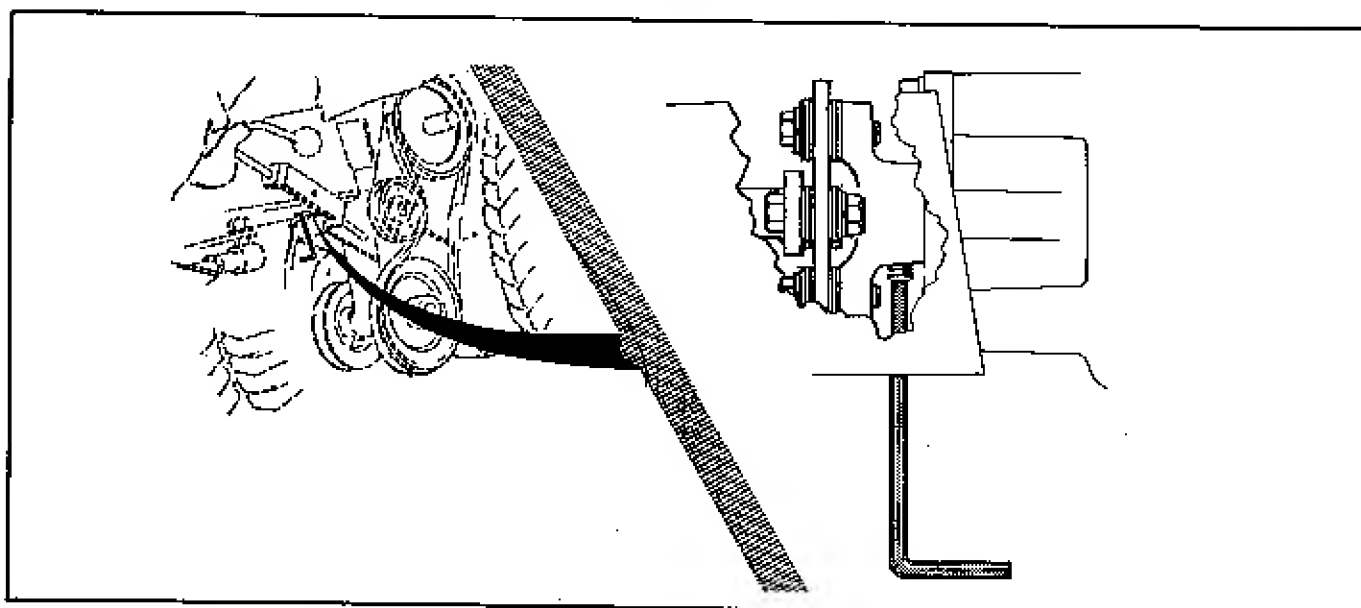


FIGURE 1A

## ASSEMBLY

- A. Remove hood, side panels, battery, and shut gasoline valve below tank and disconnect gasoline hose. (Fig. 1), remove dash support assembly screws, frame from tractor, left handle, and quadrant.
- B. Loosen set screw on rear coupling flange through hole in bottom of frame. (Fig. 1A )
- C. Remove two capscrews holding front coupling to the engine pulley (1, Fig. 2) and replace Drive Hub with the hydraulic pump drive pulley (1, Fig. 3) being sure to have the pump belt in position on the pulley before replacing the attaching screws. (On 12 hp. drive pulley is furnished with tractor. Do not use pulleys supplied with kit).
- D. After the front coupling is secured, re-tighten the set screw on the flange at the rear coupling.

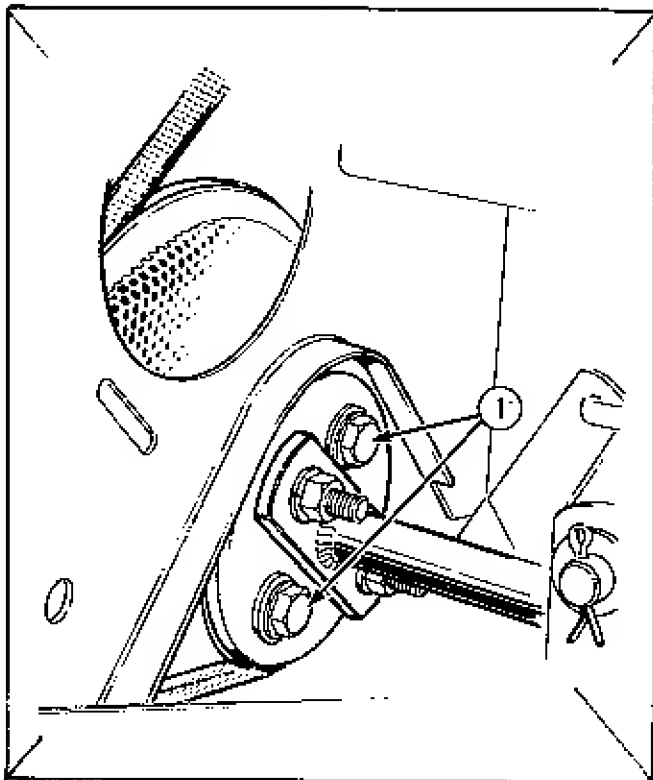


FIGURE 2

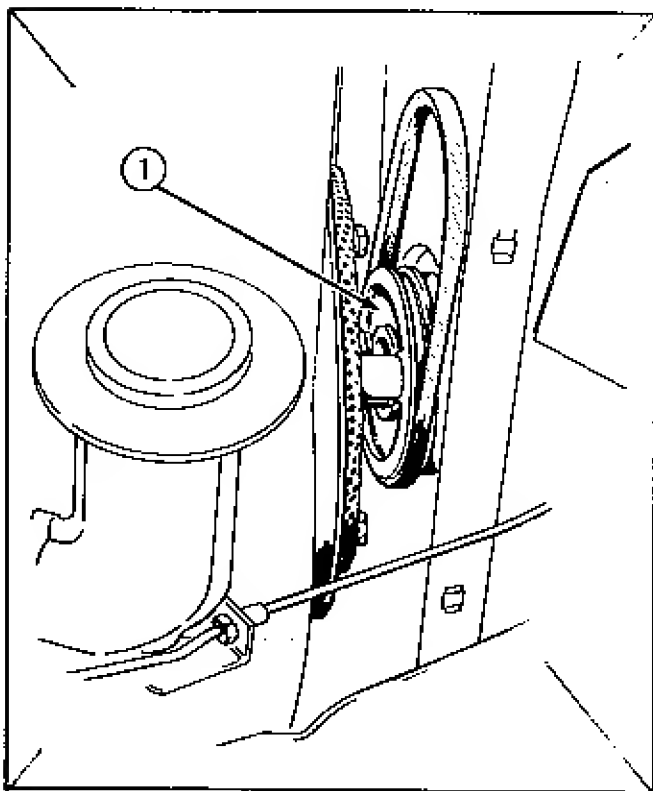


FIGURE 3

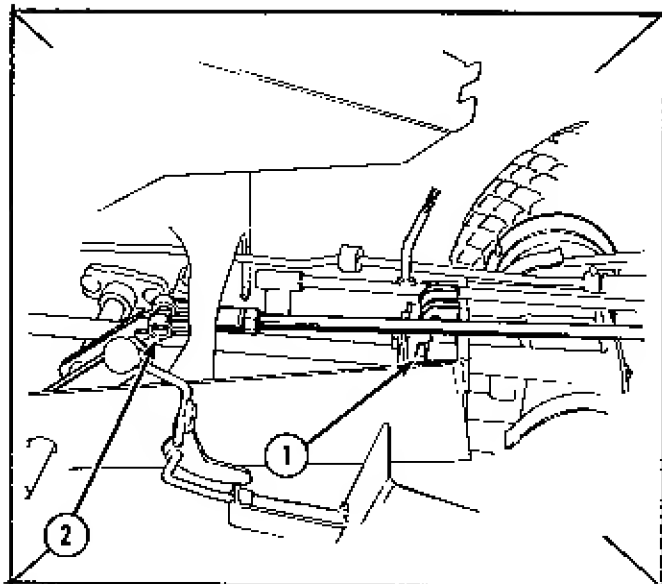


FIGURE 4

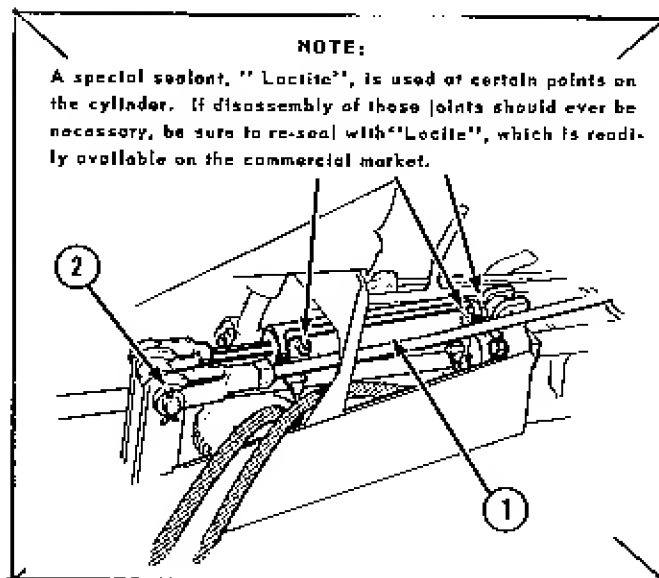


FIGURE 5

**NOTE:**

A special sealant, "Loctite", is used at certain points on the cylinder. If disassembly of those joints should ever be necessary, be sure to re-seal with "Loctite", which is readily available on the commercial market.

- E. Remove top two screws holding bevel gear housing to rear frame plate, install rear cylinder bracket, and secure with 3/8-16 cap screws provided. (1, Fig. 4)
- F. Remove pivot pin from front clevis on the left rod assembly (2, Fig. 4)
- G. Install cylinder assembly as shown (1, Fig. 5), attaching to the rear bracket with the short pin providing, and attaching the front clevis to the lift lever with the long pin and cotter keys (2, Fig. 5)
- H. Attach the pump and tank assembly to the front panel of the tank support assembly by means of the three Whiz-Lock nuts provided (1, Fig. 6);

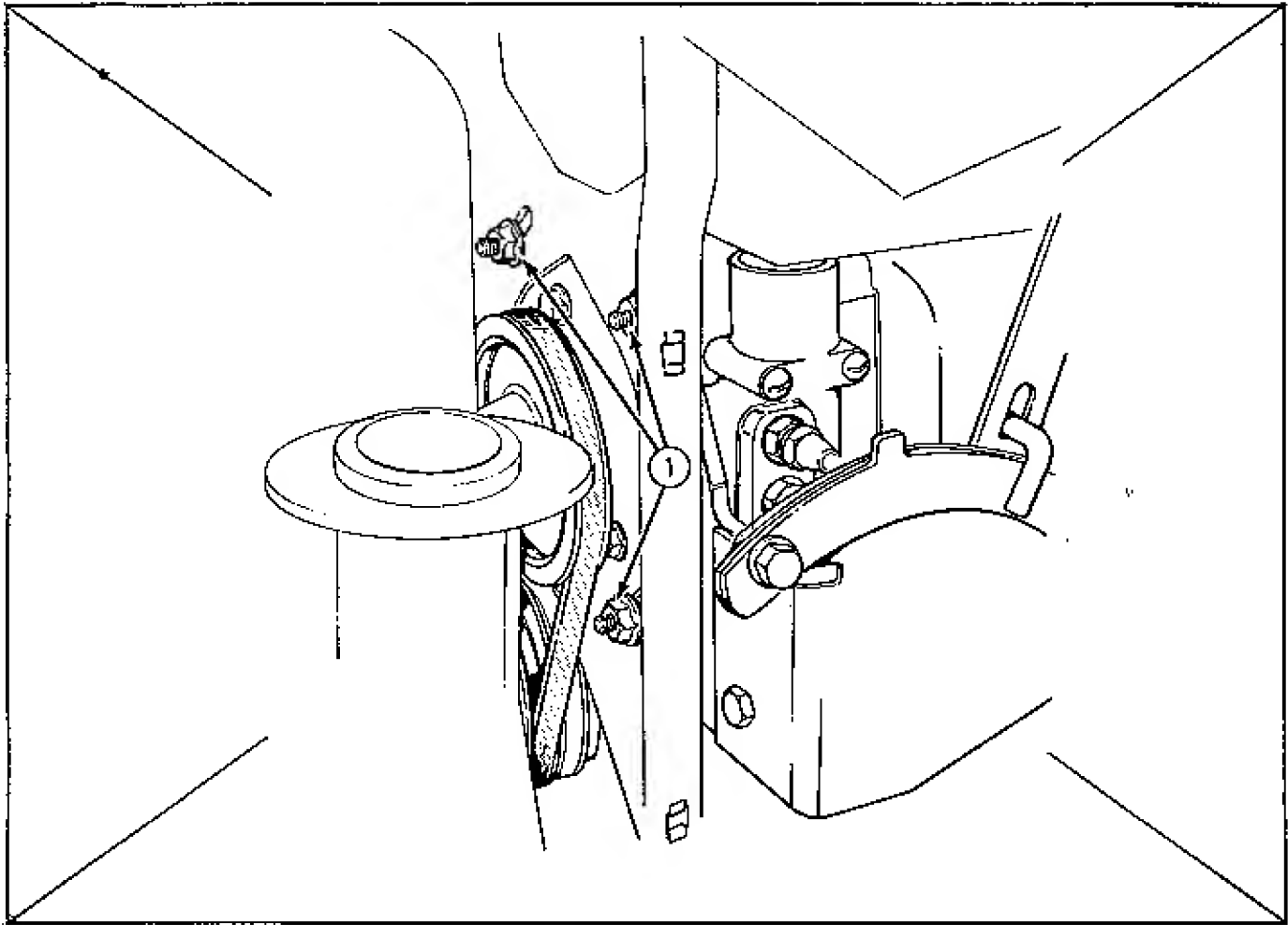


FIGURE 6

with the drive belt positioned on its pulleys. (Provide proper belt tightness by exerting light pressure under the pump assembly while tightening the Whiz-Lock nuts.

- I. Remove the protective slugs from the hose fittings, and attach the longer hose from the rear cylinder fittings to the bottom fitting on the valve assembly (1, Fig. 7 & 7 A) (NOTE: The hose end with 90° bend goes to the cylinder, and the end with 114° bend goes to the valve assembly).
- J. Attach the shorter hose from the front cylinder fitting to the top fitting on the valve assembly (2, Fig. 7). (Check to be sure there is no interference with the steering gear when the lift lever is operated, and that there are no kinks or sharp bends in the hose).

Install the clamp (4 Fig. 7) to hold the hoses securely in position.

- K. Attach PTO clutch lever bracket (5 Fig. 7) to side of frame, and re-assemble PTO lever as shown.
- L. Replace fuel line, battery, panels, etc. that were previously removed.
- M. Fill pump tank to the line indicated at the lower side of the filler spout. **USE ONLY 10W-30 OIL AS RECOMMENDED, AND RECHECK THIS LEVEL PERIODICALLY. CHANGE OIL EVERY 20 TO 25 HOURS.**
- N. Position tank for drain plug to be on bottom.

**CAUTION: KEEP FILLER SPOUT CLEAN SO THAT NO FOREIGN MATTER CAN GET INTO TANK WHEN CAP IS REMOVED.**

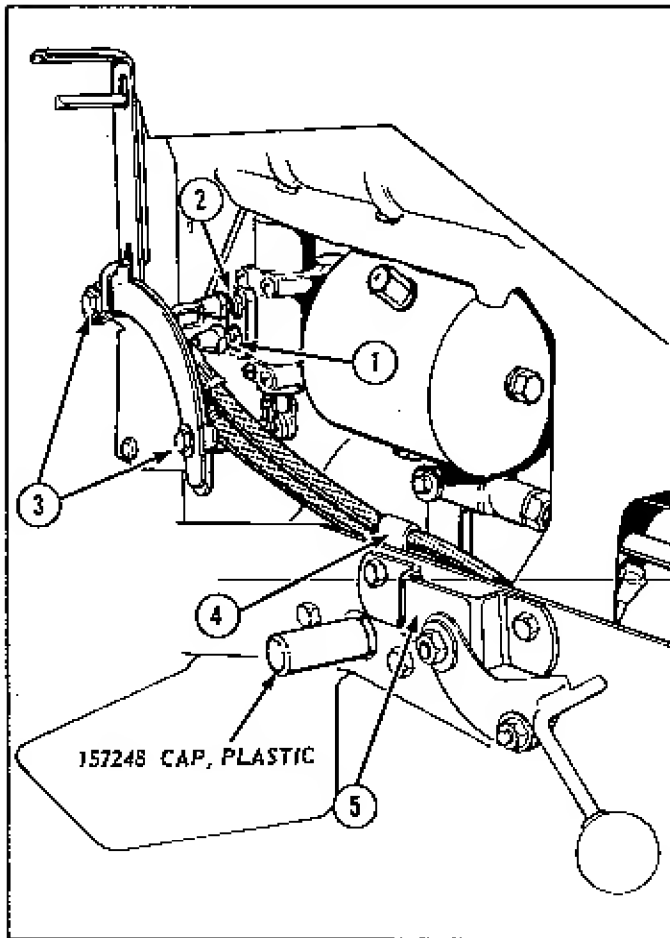


FIGURE 7A

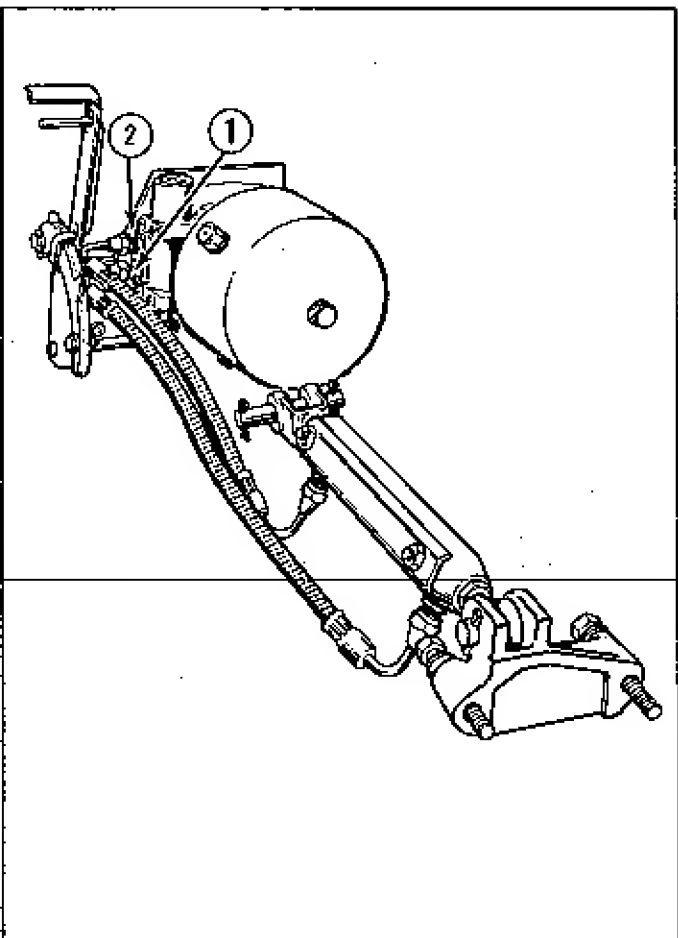


FIGURE 7

#### INSTRUCTIONS FOR ADJUSTING HAND LEVER AND FLOAT STOPS OF QUADRANT ON HYDRAULIC UNIT

Attach pump to pump support assembly #157420. Then attach support assembly to fuel tank and steering post support. Attach lever with connecting link to valve spool shaft.

Place the lever #157200 with the latch rod #157206 in the exact middle of the two hex cap screws "F" located in the quadrant #157199. This is done by adjusting the angle bracket #157428 and quadrant #157199 up or down on the support #157420. Tighten the capscrews securing the bracket and quadrant to the support.

Move lever to most extreme position (front or rear). Bring stop plate up so notch is striking rod #157206 and secure capscrew (F) furthest from handle. Repeat procedure to the other extreme for other stop plate.

Check rod #157206 in both positions. This rod is not to have ANY FREE MOVEMENT when in front or rear float position. Excessive play at this point increases back pressure on the pump and may cause overheating of the pump. If pump is moved to lift position (front or rear) and then drops the load before entering float position, readjust the hand lever to center of quadrant as described above. Oil lever and rod to insure free movement.

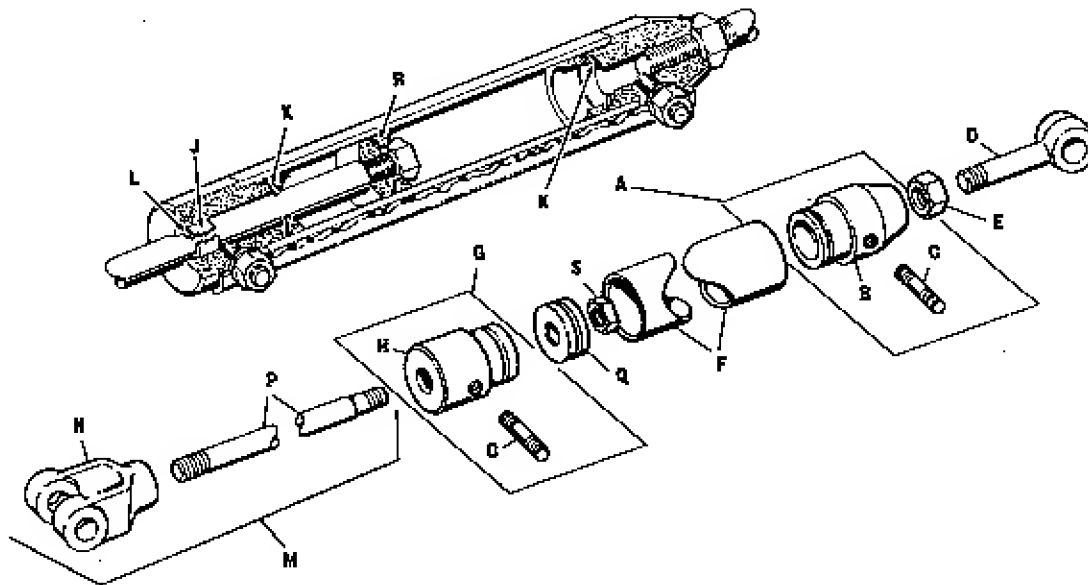
The bolts holding the pump and tank together should be checked and tightened to torque or 50-60 INCH POUNDS.

**CAUTION DO NOT OVERFILL**

**CAUTION DO NOT OVERFILL**

INSTRUCTIONS CONTINUED ON PAGE 7

# HYDRAULIC LIFT GROUP



## G-157218 GUIDE CYLINDER END ASSY.

Consists of

- 1 - 157216 - "O" Ring
- 1 - 157220 - Bushing (not serviced separately)
- 2 - 157214 - Stud

ORDER BY PART NUMBER

## A-157212 BASE CYLINDER ASSY.

Consists of

- 1 - 157216 - "O" Ring
- 1 - 717016 - Nut, Hex. Jam
- 2 - 157214 - Stud

Ref. Let.	Part No.	Description
A	157212	Cylinder Base Sub-Assembly
B	157213	Cylinder Base
C	157214	Stud Bolt, 5/16"-18 x 7/8"
D	157215	Bolt Eye
E	717016	Jam Hex. Nut, 1/2"-20
F	157217	Cylinder
G	157218	Sub Assembly Guide
H	157219	Cylinder End Guide
J	157220	Bushing

Ref. Let.	Part No.	Description
K	157216	"O" Ring
L	157221	"O" Ring
M	157222	Yoke & Rod Sub-Assembly
N	157223	Yoke
P	157224	Piston Rod
Q	157226	Piston
R	157227	"O" Ring
S	717009	Full Hex. Nut

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(For instance if a fitting or other part is dropped on a contaminated surface, the part must be carefully washed and dried before re-using.)

REMEMBER-HYDRAULICS DEMAND CLEANLINESS